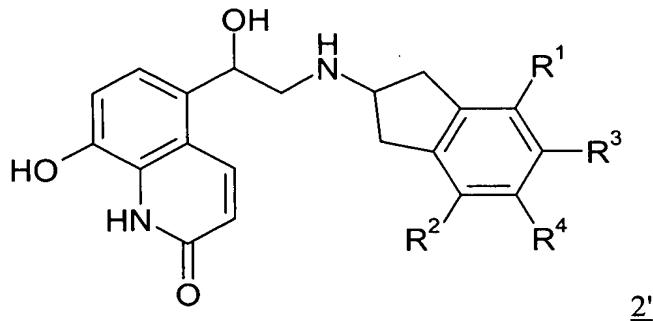


Patent Claims

- 1) A composition comprising one or more salts of tiotropium 1 and one or more pharmacologically acceptable salts of a compound of formula 2'

5



wherein

R¹ and R² which may be identical or different denote hydrogen or C₁-C₄-alkyl;
R³ and R⁴ which may be identical or different denote hydrogen, C₁-C₄-alkyl, -O-C₁-C₄-alkyl, - C₁-C₄-alkylene-O-C₁-C₄-alkyl or
10 R³ and R⁴ together denote one of the bridging groups
- C₁-C₄-alkylene- or -O-C₁-C₄-alkylene-O-; together with a
pharmaceutically acceptable carrier.

15 2) The composition according to claim 1 wherein the one or more salts of tiotropium 1 is in the form of the chloride, bromide, iodide, methanesulphonate, paratoluene sulphonate or methyl sulphate.

3) The composition according to claim 1 wherein, for the compound of formula 2',
R¹ and R² which may be identical or different denote hydrogen, methyl or ethyl;
20 R³ and R⁴ which may be identical or different denote hydrogen, methyl, ethyl,
propyl, butyl, methoxy, ethoxy, methoxymethyl, or methoxyethyl, or
R³ and R⁴ together denote one of the bridging groups
propylene, butylene, -O-ethylene-O- or -O-propylene-O-.

4) The composition according to claim 1 wherein the one or more salts of tiotropium 1 and the one or more pharmacologically acceptable salts of compound 2' are either present together in a single preparation or are contained in two separate preparations.

5 5) The composition according to claim 4 wherein the weight ratios of 1 to 2 are in the range from 1:300 to 30:1.

6) The composition according to claim 4 wherein a single application corresponds to a dosage of the combination of active substances 1 and 2 of 0.01 to 10000 μ g.

10

7) The composition according to claim 4 that it is in the form of a formulation suitable for inhalation.

15

8) The composition according to claim 7 wherein the form is selected from the group consisting of inhalable powders, propellant-containing metering aerosols and propellant-free inhalable solutions or suspensions.

20

9) The composition according to claim 8 comprising an inhalable powder which contains 1 and 2 in admixture with suitable physiologically acceptable excipients selected from the group consisting of monosaccharides, disaccharides, oligo- and polysaccharides, polyalcohols, salts, and mixtures of these excipients.

10) The composition according to claim 9 wherein the excipient has a maximum average particle size of 250 μ m.

25

11) The composition according to claim 9 contained in a capsule.

12) The composition according to claim 8 in the form of an inhalable powder consisting essentially of active substances 1 and 2.

30

- 13) The composition according to claim 8 in the form of a propellant-containing inhalable aerosol comprising active substances 1 and 2 in dissolved or dispersed form.
- 14) The composition according to claim 8 in the form of a propellant-free inhalable solution or suspension comprising water, ethanol or a mixture of water and ethanol as a solvent.
5
- 15) A method for treating inflammatory or obstructive diseases of the respiratory tract comprising the administration to a patient of a therapeutically effective amount of the composition according to claim 1.
10